

## ABSTRACT

The present invention provides a simplified set of characteristics that can be used to select 1,2,4 benzotriazine 1,4 dioxide compounds (TPZ analogues) with therapeutic  
5 activity against hypoxic cells in human tumour xenografts, and to further provide a novel class of 1,2,4-benzotriazine-1,4-dioxides (TPZ analogues) with predicted in vivo activity against tumours, to their preparation, and to their use as hypoxia-selective cytotoxic drugs and radiosensitizers for cancer therapy, both alone or in combination with radiation and/or other anticancer drugs.

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